Chronomatic-112 AM/FM Clock Radio
(120-1499/A) Features Faxback Doc. # 19729

The Chronomatic-112 AM/FM Clock Radio is a high-quality AM/FM digital clock radio with many exciting features.

Built-in stereo FM, with dual 3" dynamic-type, permanent magnet speakers. The Stereo beacon tells you when you tune in a stereo station.

Flip-type digital clock movement is dimly lit, easy to see day or night.

The circuitry is all silicon solid-state, assuring you of minimum power consumption and maximum performance. We have used Integrated Circuits (IC's) for the I.F. and multiplex filters in the I.F. circuitry so you get maximum selectivity on both AM and FM.

Stereo headphone jack - you can listen to FM stereo music in privacy.

External FM Antenna terminals are included so you can connect an external or outside FM antenna for superior FM and FM stereo reception.

And there's much more - snooze bar, sleep to music switch and built-in AM and FM antennas.

Chronomatic-112 AM/FM Clock Radio
(120-1499/A) Operation Faxback Doc. # 19730

## BEFORE TURNING ON

Set the ON/OFF/AUTO switch to OFF and turn the VOLUME control all the way down. Plug your Clock Radio's line cord into a standard household AC power outlet.

## SETTING THE CLOCK

Set to the proper time by adjusting the TIME SET (outer ring of the lower knob) to the left of the clock.

NOTE: Turn this knob in a clockwise direction only.

## SETTING THE ALARM

Turn the ALARM Set (small lower knob to the left of the clock) to the desired setting. The Alarm time indicator just to the left of the clock is marked at 20-minute intervals (you can set to 10-minute intervals).

## LISTENING TO RADIO

Set the AM/FM/FM/ STEREO switch to either AM or FM. Set the ON/OFF/AUTO switch to ON. Adjust the Tuning control to the desired station and set VOLUME at a reasonable listening level. Set TONE switch to Hi or Lo for the most pleasing tone (to emphasize either High or Low tones). If you are listening to FM and the STEREO beacon light comes on, it means you are tuned to a stereo station - in such a case set AM/FM/FM/STEREO switch to the FM STEREO position and enjoy stereo sound.

## SLEEP-TO-MUSIC

Set ON/OFF/AUTO to OFF. Set SLEEP control to the desired amount of time (up to 60 minutes) then adjust the radio as described in Listening to Radio. The Radio will automatically shut off at the end of the period you set.

## WAKE-TO-MUSIC

Set the ON/OFF/AUTO switch to AUTO. The radio will come on at the time you've set on the Alarm. The Radio will stay on for about 80 minutes and then automatically turn off. To turn the Radio off, set ON/OFF/AUTO/ to OFF. Set to ON if you want to continue listening to the Radio.

SNOOZE

Want to catch an additional 6 or 7 minutes of sleep after the Radio comes on? Just tap the SNOOZE bar on top of the Radio. The Radio will come back on in 6 or 7 minutes. You can repeat the Snooze function for up to sleep to your favorite station and wake up to it too!

SLEEP-TO-MUSIC AND WAKE-TO-MUSIC

You can use both of these functions together. Just follow the directions noted under "Wake-to Music" but set SLEEP control for the desired amount of time. This way you can go to sleep to your favorite station and wake up to it too!

PRIVATE LISTENING

You can listen to the Radio without disturbing others; merely plug headphones into the PHONES jack. You can use either a pair of stereo headphones, or a standard pillow-type speaker. Inserting a plug into this jack automatically disconnects the internal speakers.

NOTES: Protect your radio from dust and moisture and do not expose it to extreme heat. Radiators, stoves and heaters may damage the cabinet and components.

Use a soft cloth moistened with water or soap-suds to clean the cabinet. NEVER USE HARSH SOLVENTS.

Your clock radio is designed for AC operation only

If your clock radio should require repairs, take it to your nearest Radio Shack store.

For best Stereo FM listening, adjust BALANCE control for the sound that gives you best separation and stereo effect.

If a stereo FM station is weak and/or distant, you may get fluttery reception. In such a case, do not use the FM Stereo position of the AM/FM/FM STEREO switch. You will lose the stereo effect (if there is any) but reception will be much less noisy.

For best FM reception (not stereo), use the FM position only. If you listen to a non-stereo station with the band switch in the FM STEREO position, you'll get extra noise.

You may notice that AM reception is affected by the positioning and location of the Radio. This is normal; move or rotate the Radio for best AM reception (especially important for weak/distant stations).

If you want the very best FM and FM stereo reception, you should connect an external or outdoor FM antenna to the EXT. FM ANT. screw terminals. You should realize that to obtain good FM stereo, you need a good strong signal, thus an external antenna becomes very important if you want good stereo. If stereo reception is 'fluttery' either the station is too weak and distant, or you need a better antenna. Your local Radio Shack store has a nice selection of indoor and outdoor antennas that can be used to insure good reception.

Chronomatic-112 AM/FM Clock Radio
(120-1499/A) Specifications Faxback Doc. # 19731

| | | | Nominal | Limit |
|---|---|---|---|---|
| FM | Frequency range I-F Freq. 10.7 MHz | | 87-109 MHz* | 88-108 MHz |
| | Usable sensitivity (S/N 30 dB | 90 MHz | 20 uV | 40 uV |
| | | 98 MHz | 20 uV | 40 uV |
| | | 106 MHz | 20 uV | 40 uV |
| | Output lever (98 MHz 1000 uV input) | | 400 mW | 300 mW |
| | S/N ratio (98 MHz 1000 uV input) | | 44 dB | 38 dB |
| | Distortion (98 MHz 1000 uV input) | | 3% | 5% |
| | Image rejection ratio (106 MHz) | | 26 dB | 20 dB |
| | I-F rejection (90 MHz) | | 56 dB | 50 dB |
| | Alternate channel selectivity (98 MHz) (100 uV input) | | +20/-20 dB | +12/-12 dB |
| | Frequency deviation | 92 MHz | +/- 1 MHz | |
| | | 104 MHz | +/- 1 MHz | |
| FM MPX | Stereo separation (100 uV input with kHz deviation-L + R : 92%, Pilot 8%) | | 26 dB | 20 dB |
| | Beacon sensitivity | | 70 uV | 140 uV |
| | Stereo separation at beacon sensitivity | | 20 dB | 15 dB |
| AM | Frequency range | | 525-1650 kHz | 535-1605 kHz |
| | Sensitivity (I. F. Freq. | 600 kHz | 160 uV/m | 320 uV/m |

| | | | |
|---|---|---|---|
| 455 kHz) | 1000 kHz | 160 uV/m | 320 uV/m |
| | 1400 kHz | 160 uV/m | 320 uV/m |
| Usable sensitivity | 600 kHz | 300 uV/m | 500 uV/m |
| (S/N 20 dB | 1000 kHz | 300 uV/m | 500 uV/m |
| | 1400 kHz | 300 uV/m | 500 uV/m |
| Image rejection ratio (1400 kHz) | | 40 dB | 34 dB |
| I-F rejection (600 kHz) | | 34 dB | 28 dB |
| Output power (10% distortion 5 mV/m 1 kHz input) | | 400 mW | 300 mW |
| Selectivity +/- 10 kHz | | 26 dB | 20 dB |
| T.H.D. distortion 5 mV/m 1 kHz input | | 3% | 5% |
| A.G.C. 10 dB 100 mV/m 1 kHz input | | 6 dB | 40 dB |
| Frequency deviation | 600 kHz | +/- 35 kHz | |
| | 1400 kHz | +/- 100 kHz | |
| Power requirements | | 120 Volts AC | 60 Hz 10 Watts |

* European models must not be able to tune below 87.5 MHz.

NOTE: Nominal Specs represent the design specs; all units should be able to approximate these-some will exceed and some may drop slightly below these specs. Limit Specs represent the absolute worst condition which still might be considered acceptable; in no case should a unit perform to less than within any Limit Spec.

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